NautoSteer® AS

Advanced Steering Control System
The new NautoSteer AS Advanced Steering Control System is designed accordingly to fail to safe principles. No single failure in the system causes any unwanted rudder activity. All components of the system are connected via reliable CAN-bus technology. Even a redundant CAN-bus is used for all safety relevant components. Important safety features such as wire break monitoring, steering failure monitoring and data integrity monitoring are standard in the new NautoSteer AS.

Within the last years safety requirements for steering control systems have certainly increased. Classification societies require wire break monitoring for feedback-loops and rudder order commands. Others require steering failure monitoring. These requirements are reasonable because it is essential to prevent any failures in the steering control system and thus any serious hazards for life, ship and environment.

### Simple change-over of steering modes

The new Steering Mode Selector Switch contains only two modes. In “Main” mode a dedicated non-follow-up tiller is used. This tiller controls the valves directly without use of any electronics. The “Secondary” mode allows to steer the vessel with other steering controls such as follow-up tillers, different non-follow tillers or autopilot steering. In this mode the steering control is activated directly at the steering position with a takeover function.

Alternatively a dedicated steering position can be activated by use of a “Steering Mode Operator Unit”.

The concept of having a “Main” and “Secondary” mode provides a clear fallback position in emergency situations: change over to “Main” position. Benefit for the bridge crew: fast and safe decision making when time is crucial.

### Steering Mode Selector Switch

The Steering Mode Operator Unit allows to select a steering position and indicates the status of the steering controls.
Flexible system architecture with advanced features

The new NautoSteer AS Advanced Steering Control System consists of a modular system architecture and fulfils individual customer requirements. It can be used for all vessels with single and double rudders and on vessels with fore and aft bridges or fore and aft workstations. Dynamic positioning and joystick systems can be integrated seamlessly. The operator benefits from a user-friendly and intuitive design and advanced features like a central alarm reset and central dimming.

NautoSteer AS is a sophisticated steering control system for customers that require reliability and an outstanding functional range.

Two follow-up tillers for individual and synchronous steering for a vessel with double rudder systems
Steering frames and steering stands

Raytheon Anschütz offers customized steering frames and steering stands. These frames and stands are wired, configured and fully tested in Raytheon Anschütz factory. By using this structure, installation costs and commissioning time are considerably reduced.

Simple installation, wiring and commissioning

The installation and wiring of NautoSteer AS is fairly simple. Only CAN-bus and power needs to be connected to the equipment. The commissioning of the system is done with computer based service and configuration software. This software provides tools that allow transparent configuration and adjustment of the system. In contrast to other steering control systems, the commissioning can be done by a single person.